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(12) PATENT SPECIFICATION

ABSTRACT

(19) AU

(21) 37,769/78 (22) 23.12.77 (23) 4.7.78 (24) 23.12.7
(43) 10.1.80
(51)² B60C 11/00 B60C 13/00 B60C 19/06
(54) Ribbed tread and sidewall construction
(75) Cowie, J.G.
(57) Tread and sidewall construction with transverse tread bars extended radially down sidewalls. These bars are alleged to increase traction, strength, etc, and, in sidewalls, to produce a fan-like cooling effect.

Claim Indefinite



COMMONWEALTH OF AUSTRALIA
PATENTS ACT 1952-1969

Form 10

COMPLETE SPECIFICATION

(ORIGINAL)

FOR OFFICE USE

Application Number:
Lodged:

Class

Int. Class

Complete Specification—Lodged:
Accepted:
Published:

Priority:

Related Art:



Name of Applicant:

TO BE COMPLETED BY APPLICANT

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40.00

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Complete Specification for the invention entitled:

IMPROVEMENTS AND ADDITIONS
TO PNEUMATIC TYRES

The following statement is a full description of this invention, including the best method of performing it known to me:—

*Note: The description is to be typed in double spacing, pica type face, in an area not exceeding 9 $\frac{1}{2}$ " in depth and 6 $\frac{1}{4}$ " in width, on tough white paper of good quality and it is to be inserted inside this form.

THIS INVENTION RELATED TO IMPROVEMENTS AND ADDITIONS TO PNEUMATIC TYRES FOR THE WHEELS OF VEHICLES, FOR CYCLING, MOTORING, AIRCRAFT AND SUCH LIKE CONVEYANCES AND AS DESCRIBED IN THE FOLLOWING STATEMENTS:—

THE IMPROVEMENTS IS A NEW CONCEPT IN THE DESIGN, PATTERN, SHAPE, STRUCTURE, FORM OF PNEUMATIC TYRES, WITH ADDITIONS, A NEW REINFORCEMENT, THE STRENGTHENING, STRAIGHTENING OF THE WALLS AND THE TREAD OF PNEUMATIC

1. TYRES, PROVIDING AN EFFICIENT SAFETY FACTOR, ADDITIONAL ROADWAY COVER, EDGE, AND TRACTION, A HOLDING, GRIPPING, CAPACITY TO THE ROADWAY SURFACE, COUNTERACTING THE SLIPPING, SLIDING, SKIDDING AND SUCH LIKE MOTIONS OF TYRES AND WHEELS OF VEHICLES, WITH THE NEW OBLONG RECTANGULAR SHAPED CROSSWISE SECTIONS OF THE TREAD, JOINED TO THE NEW TOP SECTIONS OF THE WALLS OF THE PNEUMATIC TYRES AND ALL JOINED TOGETHER TO THE SOLID CORE OF MATERIALS AND TO THE CENTRE SECTION, PORTION OF THE TREAD WHICH SURROUNDS THE TOP SURFACE OF THE TYRES, JOINED
2. TOGETHER WITH ALL THE OTHER SECTIONS OF THE TREAD AND THE NEW STRAIGHT TOP SECTIONS OF THE WALLS OF THE PNEUMATIC TYRES FORMING TOGETHER CROSSES, CROSS SECTIONS ACROSSWISE FORMATION OF THE TOP SURFACE SECTIONS OF THE TREAD, AND WHICH ARE JOINED TO THE NEW ADDITIONS TO PNEUMATIC TYRES THE REINFORCING OBLONG RECTANGULAR SHAPED STRAIGHT-IN-LINE SECTIONS OF THE WALLS WITH GROOVED SPACES BETWEEN THE WALL SECTIONS, AND EXPLICITY SHOWN IN THE DRAWINGS, DESCRIPTIVE MATTER, ATTACHED.

"IMPROVEMENTS AND ADDITIONS TO PNEUMATIC TYRES"

INDEX TO FIGURE NOS.

DRAWINGS, DESIGN ATTACHED TO COMPLETE
SPECIFICATION.

FIGURE NO. 1.

ORIGINAL DRAWING DESIGN OF INVENTION.

FIGURE NO 2.

PERSPECTIVE DRAWING OF INVENTION

FIGURE NO 3.

SECTION DRAWING OF INVENTION.

The claims defining the invention are as follows:-

THE NEW PATTERN FORMATION OF THE TREAD SECTION OF THE TYRES OF THIS INVENTION WITH THE NEW ADDITIONS, THEREIN, FOR ENCEMENT OF LONG SHAPED STRAIGHT IN LINE SECTIONS OF THE SIDEWALLS OF THE TYRES PROVIDE AN INCREASE IN ROAD COVERAGE BY THE TYRES WITH AN IMPROVEMENT IN THE ROAD HOLDING, GRIPPING TRACTION CAPACITY ON THE VARIOUS KINDS AND CONDITIONS OF ROADWAY SURFACES.

THE NEW TREAD TOP SECTIONS OF THE TYRES INCLUDING THE TOP SECTIONS OF THE SIDEWALLS, THE TYRES ARE SQUARELY AND FIRMLY PLACED ON THE ROADWAY SURFACES, INCREASING STABILITY, AN ADDED SAFETY FACTOR, PARTICULARLY WHEN THE TYRES AND WHEELS OF VEHICLES ARE IN A TURNING ACTION POSITION, PREVENTING THE TYRES, WHEELS, AND VEHICLES FROM HEELING OVER, LEANING SIDEWAYS, COUNTERACTING INSTABILITY WITH THE SLIDING, SLIPPING, SKIDDING MOTIONS ASSOCIATED WITH VARIOUS DESIGNS OF PNEUMATIC TYRES.

THE NEW ADDITIONS TO PNEUMATIC TYRES OF THIS INVENTION WITH THE REINFORCEMENT STRENGTHENING OF THE SIDEWALLS, INSURES ADDITIONAL PROTECTION TO THE TYRES FROM THE BULGING, BURSTING, "BLOW OUTS" CONDITIONS WHICH OCCUR FROM AIR PRESSURE, STRESS AND STRAIN FROM THE WEIGHT AND LOAD CARRIED BY THE TYRES OF VEHICLES.

THE GROOVES SPACES BETWEEN THE OBLONG SECTIONS OF THE SIDEWALLS WHEN IN MOTION ARE SUBJECTED TO THE ATMOSPHERIC MOLECULAR DISTURBANCE AND USED TO ADVANTAGE, CREATE A FAN LIKE COOLING EFFECT ON THE TYRES, COUNTERACTING FRICTION HEAT GENERATED BY TYRES. IN THE BUILDING, MOULDING, PROCESSING, MANUFACTURING, PRODUCING THE TYRES OF THIS INVENTION, FROM VARIOUS MATERIALS, AN ADDITION OF COLOURING MATTER MATERIAL, MAY BE INCLUDED OF EVERY KIND OF COLOUR AND COMBINATIONS OF COLOURS AS REQUIRED OR DESIRED.

Dated this TWENTY EIGHTH day of JUNE, 1978.

JOHN GORDON COWIE.

NAME OF APPLICANT
(BLOCK LETTERS)

*Note: If there is insufficient space above to type the statement of claim, do not use this sheet, but use separate sheet of paper beginning with the words "The claims defining the invention are as follows:-" and ending with the date and name of the applicant in block letters.

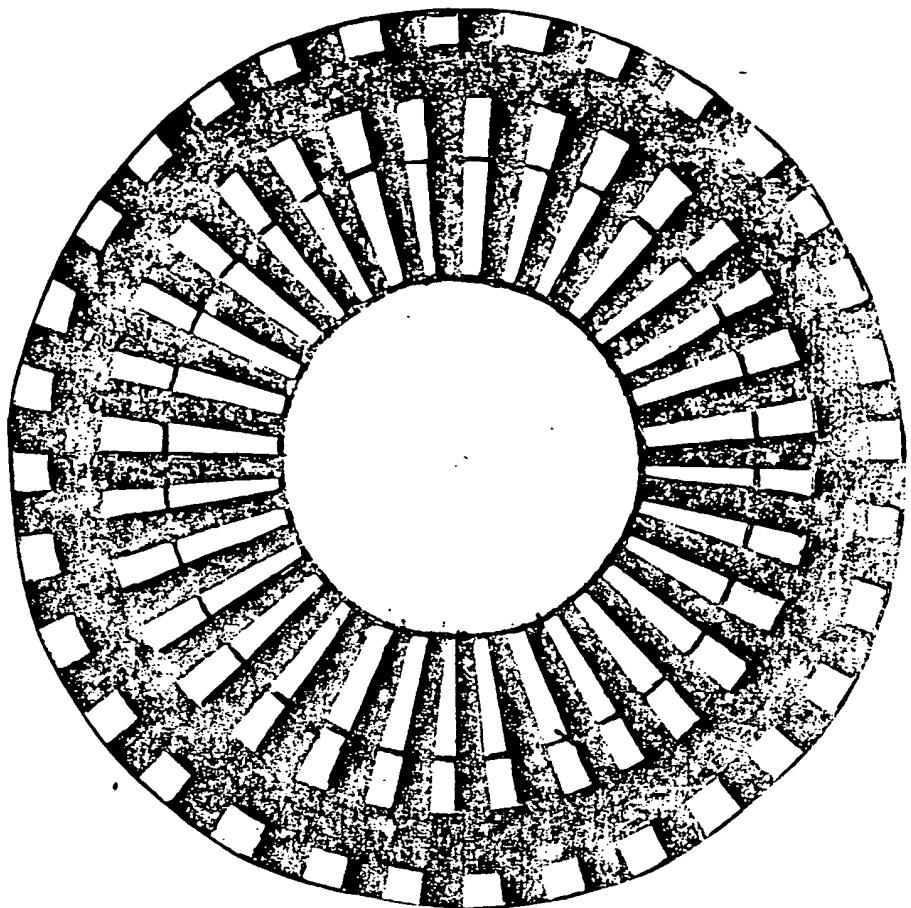


FIGURE NO. 1. DESIGN.

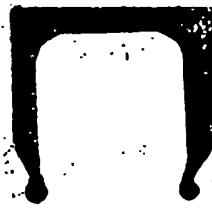


FIGURE No.3. SECTION

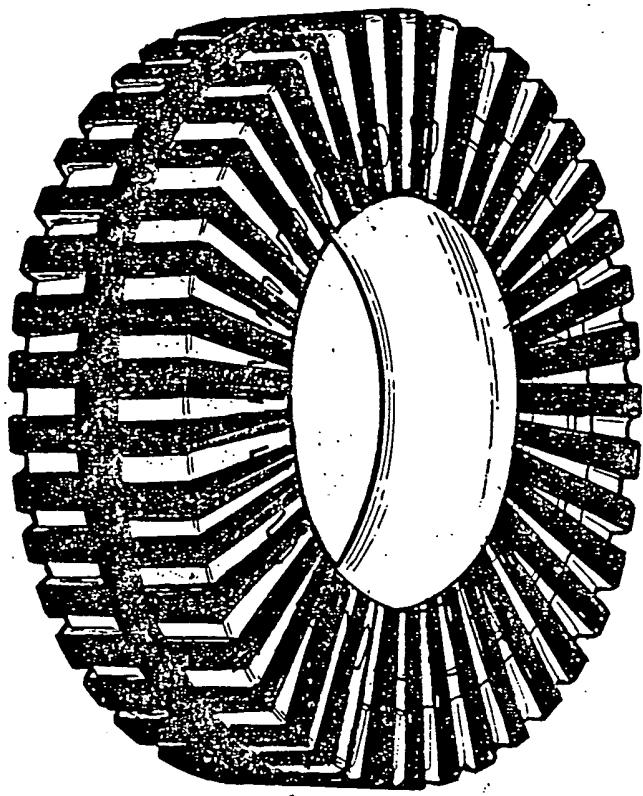


FIGURE No.2. PERSPECTIVE